

## ABSTRACT OF THE DISCLOSURE

[0061] A system for analyzing multiple images is provided, such as to locate defects in a test component.

5 The system includes a first light source, such as one that emits blue light, and a second light source, such as one that emits red light. The system also includes a camera, where the camera and the light sources are focused on an area where a test piece is to be placed. A multiple image  
10 processor is connected to the first light source, the second light source, and the camera. The multiple image processor causes the first light source and the second light source to turn on, such as in sequence, and also causes the camera to generate two or more sets of image data, such as one set  
15 when each of the light sources is illuminated, through the use of filters or tuned pixels, or otherwise.